| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |  |

| Application No. | Applicant(s)   |  |
|-----------------|----------------|--|
| 09/996,838      | HOFLAND ET AL. |  |
| Examiner        | Art Unit       |  |
| Dave T Nguyen   | 1632           |  |

| Rejected | - | (Through numeral)<br>Cancelled |
|----------|---|--------------------------------|
| Allowed  | ÷ | Restricted                     |

| N | Non-Elected  |
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| ı | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Claim                   | Date           |          |          |  |              |                |  | 1        | Claim Date |   |  |          |          |          |          |                                     |              |              | CI       | aim      | Date   |   |                 |          |          |          |  |  |              |  |            |          |          |
|-------------------------|----------------|----------|----------|--|--------------|----------------|--|----------|------------|---|--|----------|----------|----------|----------|-------------------------------------|--------------|--------------|----------|----------|--|---|-----------------|----------|----------|----------|--|--|--------------|--|------------|----------|----------|
|                         |                | AI       | Т        |  |              |                |  |          |            |   |  |          |          | 1        |          |                                     |              | ī            | Т        | Т        | T  | Ť | Ι               |          | Н        |          |  |  |              |  |            |          |          |
| <del>_</del>   <u>7</u> | ğ              | 41       |          | 1                                      |              |                |  | l        |            |   | l <u> </u>                                       | la l     |          |          |          |                                     | 1            |              |          |          |  |   | _               | <u> </u> | ĺ        |          |  |  |              | ŀ  | 1          |          |          |
| Final                   | 5              | 3        |          | 1                                      |              |                |  | 1        | ł          |   | Final  | ᡖ        |          |          |          |                                     | l            | ŀ            |          |          |  |   | Final           | g.       | İ        |          |  |  |              | ŀ  | 1          |          |          |
| Final                   | 5 1            | 3        |          | - 1                                    |              |                |  |          | 1          |   | III  | Original |          |          |          |                                     |              |              |          |          |  |   | ፲፫              | Original |          |          |  |  |              |  |            |          |          |
| L                       |                |          |          |  |              |                |  |          | _          |   |  | L I      |          | L        |          | <u> </u>                            |              |              |          |          |  |   |                 |          |          |          |  |  |              |  |            |          |          |
| 1                       |                | V)       |          | -1                                     |              |                |  | "        | 1          |   |  | 51       |          |          |          |                                     |              | Г            |          |          |  |   |                 | 101      |          |          | Γ  | Π  |              | Π  |            |          |          |
| 2                       | ?              | N        |          |  |              |                |  | 1        |            | 1 |  | 52       |          | Г        | _        | Г                                   |              | П            | П        |          | Г  | 1 |                 | 102      |          |          |  | 1  | İ            |  |            |          |          |
| 3                       |                | Π        | $\neg$   | $\top$                                 |              |                |  |          | Г          | 1 |  | 53       |          |          |          |                                     |              |              | T-       | <b></b>  |  | 1 |                 | 103      |          |          |  | T  | $\vdash$     | †  | <b> </b>   |          |          |
| 4                       |                | V        | 1        | 1                                      | 1            | 1              | 1  | 1        | ┢          | 1 |  | 54       |          |          |          |                                     |              |              | ╁┈       | _        | <del> </del>                                     | 1 | -               | 104      | -        |          | i -  | t  | T            | +-   |            |          |          |
| 5                       |                | Ň        | +        |  | +            | -              |  |          | Н          | 1 | }  | 55       |          |          | ├─       | -                                   | $\vdash$     |              | $\vdash$ | $\vdash$ | $\vdash$   | 1 |                 | 105      | -        | $\vdash$ | ├  | ┿  | ┢            | ╁  |            |          |          |
| 6                       | _              | ·        | +        | +-                                     | +            | +              | +  | 1        | $\vdash$   | 1 |  | 56       |          |          | -        |                                     | <del> </del> |              | ├        | ├        | ┢  | ┨ |                 | 106      | -        | ┢        | -  | ╁  | +            | 1  | -          | ╁        | -1       |
|                         | _              | +        |          |  | +-           |                | -  |          | _          | - |  |          |          | $\vdash$ |          | -                                   | <u> </u>     | _            | $\vdash$ | $\vdash$ | 1  | ┨ |                 |          | <u> </u> | -        | ├  | ┼—   | ┢            | ╄  |            |          |          |
| 7                       |                | ╀        |          | +                                      | +            |                | ┼  |          | <u> </u>   | - |  | 57       |          |          | _        | -                                   | _            | <b>-</b>     | _        | -        | ⊢  | 4 |                 | 107      | -        | <u> </u> | _  | ــــ   | ـ            | ╙  | <u> </u>   |          |          |
| 8                       |                | $\Box$   | +        | +                                      | ∔            | ╄              |  | ┝        | <u> </u>   | 4 |  | 58       |          |          |          | ļ                                   | -            |              | <b> </b> | _        | _  | 1 |                 | 108      |          | _        |  | <u> </u>   | _            | ┺  | ᆫ          |          |          |
| 9                       |                |          | _        |  | -            | _              | <u> </u>   | -        | _          | 1 |  | 59       |          | <u> </u> | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $oxed{oxed}$ |              |          | L        | _  | 1 |                 | 109      |          | _        | <u> </u>   |  |              |  |            |          |          |
| 10                      | 0              | V/       |          | ┸                                      |              | _              |  | L        | Ĺ          | 1 | ļ  | 60       |          |          | L        | L                                   | _            | $oxed{oxed}$ |          |          |  | 1 |                 | 110      | <u> </u> |          |  |  |              | L  | L          |          |          |
| 11                      |                | ٧,       | $\perp$  |  | _            |                | $\perp$  |          |            | 1 |  | 61       |          |          | <u> </u> |                                     | L            | L            | <u>L</u> | <u> </u> | $oxed{oxed}$                                     | 1 |                 | 111      | L        | L        | L  | L  |              | L  | L          |          |          |
| 12                      |                | M        |          |  |              |                | L  |          |            |   | L  | 62       |          |          | L        | L                                   | L            | L            |          |          |  | 1 |                 | 112      |          |          |  |  |              | Γ  |            |          | $\Box$   |
| 13                      |                | N        |          | T                                      |              |                | Γ  |          |            |   |  | 63       |          |          |          |                                     |              |              |          |          |  | 1 |                 | 113      |          |          | Γ-   |  |              |  | П          | П        |          |
| 14                      |                | V        | $\top$   | T                                      | T            | Т              |  |          |            | 1 |  | 64       |          |          |          |                                     |              |              |          |          |  | 1 |                 | 114      | П        | П        |  | T  | Ι            | T  |            | $\vdash$ | $\dashv$ |
| 15                      |                | V,       | $\top$   | $\top$                                 | +            | Т              | Т  |          | Г          | 1 |  | 65       |          |          |          |                                     |              | _            | T        | <u> </u> | <del>                                     </del> | 1 |                 | 115      | t        | <b>-</b> | <del>                                     </del> | <u> </u>   |              | 1  | $\vdash$   | H        |          |
| 16                      |                | N        | $\dashv$ | +                                      | +            | t              | t  | Н        | $\vdash$   | 1 | _  | 66       |          |          | $\vdash$ |                                     | -            |              | Η-       | -        |  | 1 | <b></b>         | 116      | -        |          |  | $\vdash$   | <del> </del> | <del>                                     </del> | $\vdash$   | Н        | $\dashv$ |
| 17                      |                | 14       | -        | +                                      | +-           | +              | <del>                                     </del> | -        |            | 1 | <del>                                     </del> | 67       |          | -        |          | $\vdash$                            | -            | $\vdash$     | $\vdash$ |          | $\vdash$   | 1 |                 | 117      | $\vdash$ | -        | -  | -  | ╁─           | ╁  | $\vdash$   |          |          |
| 18                      |                |          | +        |  | +            | +              | ╁  | ├        | ┝          | ł | <b></b> -  | 68       |          | H        |          |                                     | -            | ├—           | ⊢        | _        | -  | - |                 | 117      | ⊢        |          | ├  | ├—   | ⊢            |  | ├          | Н        | _        |
| 10                      | 2              | <b>/</b> | _        |  | +-           | ├              |  | -        | _          | l |  |          |          | Ш        |          |                                     | <u> </u>     |              |          |          | _  | 1 |                 | 118      | L.       | ļ        | _  | <del> </del>                                     | _            | _  | _          | Щ        |          |
| 19                      | 9 1            | 1        | -        |  |              | ــــــ         | <u> </u>   | _        | L_         |   |  | 69       |          |          | _        |                                     |              |              | L        | <u> </u> |  | 1 |                 | 119      | L        |          | L  | <u> </u>   |              | <u> </u>   | L          |          |          |
| 20                      | 2              | 4        |          |  | ╀.           |                |  |          | L_         | 1 |  | 70       |          | L        |          |                                     |              | ļ            |          |          |  | 1 |                 | 120      |          |          | L  | <u> </u>   |              |  | _          |          |          |
| 21                      | 1              | _        |          |  |              |                |  | Ш        | <u> </u>   |   |  | 71       |          |          |          |                                     |              |              |          | L        | _  |   | L               | 121      |          |          |  |  | l            |  |            |          |          |
| 22                      | 2              |          | $\perp$  |  |              | L              |  |          |            |   |  | 72       |          |          |          |                                     | <u> </u>     | l            |          |          |  |   |                 | 122      |          |          |  |  |              |  |            |          |          |
| 23                      |                |          |          |  |              |                |  |          |            |   |  | 73       |          |          |          |                                     |              |              |          |          |  | 1 |                 | 123      | Г        |          |  |  | П            |  |            |          |          |
| 24                      | 4              | П        | $\neg$   | Т                                      | Т            | Π              |  |          |            | 1 |  | 74       |          |          |          |                                     |              |              |          |          |  | 1 |                 | 124      | Г        |          |  |  | <u> </u>     | <u> </u>   |            |          |          |
| 25                      |                |          |          | 1                                      | T            | Г              | 1  |          |            | 1 |  | 75       |          |          |          |                                     |              |              |          |          |  | 1 |                 | 125      |          | $\vdash$ |  |  | _            | $\vdash$   | <u> </u>   |          |          |
| 26                      | 3              | 1        | 1        | 十                                      | ╁            | t              | 1  |          | _          | 1 |  | 76       |          |          |          |                                     | $\vdash$     | -            | _        | -        | $\vdash$   | 1 |                 | 126      |          | -        | _  | <del>                                     </del> | ├            | ┢  |            | H        | -        |
| 27                      | 7              | _        | $\top$   | +                                      | +            | <u> </u>       |  |          |            | 1 |  | 77       |          |          |          |                                     |              |              | -        |          |  | ł |                 | 127      |          | _        | -  | ┢  | ┢─           | $\vdash$   | -          | -        | -        |
| 28                      |                | 十        |          | +                                      | +            | -              | 1  | H        |            | ł |  | 78       |          |          |          | <del> </del>                        | <del> </del> | -            | -        | H        |  | ┨ |                 | 128      |          | $\vdash$ | -  | ┢  | ┢            | ┢  | -          | $\vdash$ |          |
| 29                      | <del>:  </del> | +        | +        | ┿                                      | ╁            | ╁┈             | <del>                                     </del> | $\vdash$ | -          | ł |  |          |          |          |          | <u> </u>                            | $\vdash$     |              | -        | _        | -  | 1 | _               |          | ┝        |          | -  | -  | -            | ⊢  | -          | $\vdash$ |          |
|                         |                | +        | +        | +-                                     | -            | ┼—             | -  | $\vdash$ |            | ł |  | 79       |          |          |          | <u> </u>                            | _            |              | <u> </u> |          | <u> </u>   | - | <u> </u>        | 129      | <u> </u> |          | <u> </u>   | _  |              | <u> </u>   | ļ          | Ш        |          |
| 30                      |                | -        | -        | -                                      | -            | -              | ├  |          |            | ł |  | 80       |          |          |          | L.,                                 |              | <u> </u>     |          |          |  | 1 | -               | 130      |          |          | <u> </u>   | _  |              |  |            |          |          |
| 31                      |                | 4        | 4        | _                                      | 1            | <u> </u>       | <u>_</u>   |          |            |   |  | 81       |          |          |          |                                     | <u> </u>     |              | _        |          |  | Į |                 | 131      | _        |          | L  | <u> </u>   | Ь.           | _  |            |          | _        |
| 32                      |                | 4        | $\perp$  | 4                                      | _            |                | _  |          | _          |   |  | 82       |          |          |          |                                     |              |              |          |          |  |   |                 | 132      | <u> </u> |          |  |  |              | L  | <u>L</u> . |          |          |
| 33                      |                | _        | $\perp$  | 1_                                     | $\downarrow$ | <u> </u>       | <u> </u>   |          |            |   |  | 83       |          |          |          |                                     | L            |              |          |          | L  |   |                 | 133      |          |          | L_   | L  | L            | L  |            | ╚        |          |
| 34                      | 1              | $\perp$  | $\perp$  | $\perp$                                | 1            | <u> </u>       | <u> </u>   | Ш        |            |   |  | 84       |          |          |          |                                     |              |              |          |          |  |   |                 | 134      |          |          |  | L  | L            | $L^{T}$  |            |          |          |
| 35                      | 5              | $\perp$  |          | $\perp$                                | L            |                |  |          |            |   |  | 85       | ]        |          |          |                                     |              |              |          |          | L  |   |                 | 135      |          |          |  |  | <u> </u>     |  |            | П        |          |
| 36                      |                | _[       |          |  | $\perp$      |                | -  |          |            |   |  | 86       |          |          |          |                                     |              |              |          |          |  |   |                 | 136      |          |          |  |  |              |  |            |          | $\neg$   |
| 37                      |                | $\top$   | $\top$   | T                                      | T            |                |  |          |            |   |  | 87       |          |          |          |                                     |              |              |          |          |  | 1 |                 | 137      |          |          |  |  | Г            |  |            | $\neg$   | $\neg$   |
| 38                      |                | T        | $\top$   | 1                                      | $\top$       | Π              |  | П        |            | 1 |  | 88       | $\neg$   | $\Box$   |          |                                     |              |              |          |          |  | 1 |                 | 138      | Γ        |          | _  | <del>                                     </del> | Г            |  | $\vdash$   | $\Box$   | $\dashv$ |
| 39                      | <del>7</del>   | 十        | $\top$   | 1                                      |              | T -            | Г  |          |            |   |  | 89       | $\neg$   | $\dashv$ |          |                                     |              |              | П        |          |  | 1 |                 | 139      |          |          | _  | _  | $\vdash$     | <del>                                     </del> | -          |          | $\dashv$ |
| 40                      |                | +        | +        | +                                      | T            | T              | $\vdash$   | $\vdash$ |            |   | <b>-</b>   | 90       |          |          | -        |                                     | -            |              |          |          | -  | 1 | $\vdash$        | 140      |          |          | _  | <del> </del>                                     | <del> </del> | -  | Н          |          | $\dashv$ |
| 41                      |                | +        | +        | +                                      | +-           | $\vdash$       |  | $\vdash$ |            |   | <del>  </del>                                    | 91       | $\dashv$ | -        |          |                                     |              |              |          | $\vdash$ | -  |   | H-              | 141      |          |          | -  | -  | -            | $\vdash$   |            | $\dashv$ | $\dashv$ |
| 42                      | ;+             | +        | +        | +-                                     | +            | <del>  -</del> | $\vdash$   |          |            |   | $\vdash\vdash$                                   | 92       | $\dashv$ | $\dashv$ |          |                                     | H            |              |          | $\vdash$ |  | l |                 | 142      | H        |          | <u> </u>   | -  | $\vdash$     | -  |            | -        | $\dashv$ |
| 42                      |                | +        | +        | +                                      | +            | $\vdash$       |  | $\vdash$ |            |   |  |          |          |          |          |                                     |              |              |          | <u></u>  | -  | 1 |                 |          | H        | -        |  | ├—   | <u> </u>     | ļ  | $\vdash$   | $\dashv$ |          |
|                         |                | +        | +        | +                                      | +            | -              | -  | $\vdash$ |            |   |  | 93       | _        | -        |          |                                     | Щ.           |              |          | $\sqcup$ |  | ł | $\vdash \vdash$ | 143      | <u> </u> |          |  | <u> </u>   | Ь.           |  | L.         |          | _        |
| 44                      | 1              | +        | - -      | ــــــــــــــــــــــــــــــــــــــ | ╀-           | <u> </u>       | <b> </b>   | Щ        |            |   |  | 94       | _        | _        | _        |                                     | Ш            |              |          | _        |  |   | <u> </u>        | 144      |          |          |  | _  |              |  |            | $\Box$   |          |
| -45                     |                | 1        | -        | #                                      | 1            |                |  |          |            |   |  | -95      |          |          |          |                                     |              |              |          |          |  |   |                 | 145      |          |          |  |  |              |  |            |          |          |
| 46                      |                | $\perp$  | 1        |  | $\perp$      | L_             |  |          |            |   |  | 96       | $\perp$  |          |          |                                     |              |              |          |          |  |   |                 | 146      |          |          |  | لـــــا  |              |  |            | T        |          |
| 47                      |                | $\perp$  | $\perp$  | <u> </u>                               | _            | L              |  | Ш        |            |   |  | 97       | $\sqcup$ |          |          | ]                                   |              |              |          |          |  |   |                 | 147      |          | [        |  |  |              |  |            | _7       |          |
| 48                      | 3              |          |          | $\perp$                                |              | $L^{-}$        |  | LΊ       |            |   |  | 98       |          | T        | [        |                                     |              |              |          |          |  |   |                 | 148      |          |          |  |  |              |  |            | $\neg$   |          |
| 49                      |                | Т        |          | T                                      |              |                |  |          |            |   |  | 99       |          |          |          | $\Box$                              |              |              |          |          |  |   |                 | 149      |          |          |  |  |              | П  |            | $\dashv$ | $\neg$   |
| 50                      |                | T        | Т        | Т                                      | Ī            |                |  |          |            |   |  | 100      |          |          | 一        |                                     |              | $\neg$       |          |          |  |   |                 | 150      |          |          |  |  |              | М  |            |          | $\neg$   |
|                         | _              |          |          |  |              | _              | •  |          | _          |   |  |          |          |          |          |                                     |              |              |          |          |  | • |                 |          |          |          |  |  |              |  |            | 1        |          |